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Function Generator

GFG-8216A (3MHz)

* **Frequency Range: 0.3Hz ~ 3MHz**
* **Waveforms: Sine, Triangle, Square, Ramp, TTL and CMOS Output**
* **External Voltage Controlled Frequency (VCF) Function**
* **Duty Cycle Control with Signal Inversion Capability**
* **Variable DC Offset Control**
* **Two-Step (-20dBx2) and Variable attenuator**
* **Built-in 6 Digit Counter with INT/EXT Function up to 150MHz /high resolution**

GFG-8215A (3MHz)

* **Frequency Range: 0.3Hz ~ 3MHz**
* **Waveforms: Sine, Triangle, Square, Ramp, TTL and CMOS Output**
* **External Voltage Controlled Frequency (VCF) Function**
* **Duty Cycle Control with Signal Inversion Capability**
* **Variable DC Offset Control**
* **Two-Step (-20dBx2) and Variable attenuator**

SPECIFICATIONS

MAIN	**Frequency Range**	0.3Hz ~ 3MHz (7 Range)
	Amplitude	> 10Vpp (into 50Wload)
	Impedance	50W±10%
	Attenuator	-20dB ±1dBx2
	DC Offset	<-5V ~ >5V (into 50Wload)
	Duty Control	80% : 20% : 80% to 1MHz Continue variable
	Display	6 digit LED display *GFG-8215A does not have display.
	Range Accuracy	±5%+1Hz (at 3 position) for GFG-8215A
SINE WAVE	**Distortion**	≤ 1%, 0.3Hz ~ 200kHz
	Flatness	< 0.3dB, 0.3Hz ~ 300kHz; < 0.5dB, 300kHz ~ 3MHz
TRIANGLE WAVE	**Linear**	≥ 98%, 0.3Hz ~ 100kHz; ≥95%, 100kHz ~ 3MHz
SQUARE WAVE	**Symmetry**	± 2%, 0.3Hz ~ 100kHz
	Rise or Fall Time	≤ 100nS at maximum output (into 50Wload)
CMOS OUTPUT	**Level**	4Vpp±1Vpp ~ 14.5Vpp±0.5Vpp adjustable
	Rise or Fall Time	≤ 120nS
TTL OUTPUT	**Level**	≥ 3Vpp
	Fan Out	20 TTL load
	Rise or Fall Time	≤ 25nS
VCF	**Input Voltage**	0V ~ 10V ±1V (100 : 1)
	Input Impedance	10kW±10%
FREQUENCY COUNTER (except GFG-8215A)	**INT./EXT.**	Switch selector
	Range	0.3Hz ~ 3MHz (5Hz ~ 150MHz EXT.)
	Accuracy	Time base accuracy ± 1 count
	Time Base	± 20ppm (23 °C±5 °C) after 30 minutes warm up
	Resolution	The maximum resolution is 10nHz for 1Hz and 0.1Hz for 100MHz
	Input Impedance	1MW// 150pF
	Sensitivity	≤ 35mVrms (5Hz ~ 100MHz) ; ≤ 45mVrms (100MHz ~ 150MHz)
POWER SOURCE		AC115V/230V ±15%, 50/60Hz
ACCESSORIES		Power cord x 1, Instruction manual x 1, GTL-101 x 2; GTL-101x1 for GFG-8215A
DIMENSIONS & WEIGHT		251(W) x 91(H) x 291(D)mm, Approx. 2.1kg